

## Automatic chemical analyzer

Patent Number: ☐ US4906433  
Publication date: 1990-03-06  
Inventor(s): MINEKANE TOMIHARU (JP)  
Applicant(s): TOKYO SHIBAURA ELECTRIC CO (JP)  
Requested Patent: JP63003265  
Application Number: US19890318445 19890228  
Priority Number(s): JP19860146064 19860624  
IPC Classification: G01N35/04  
EC Classification: G01N35/02C  
Equivalents: JP2016849C, JP7054326B

---

### Abstract

---

An automatic chemical analyzer having a plurality of reaction tubes which are mounted on a first turntable and held in a first circle. A first motor drives the first turntable such that the reaction tubes move along the first circle. A sampling nozzle distributes a sample to the reaction tubes. A plurality of first reagent vessels containing different reagents of a first group are mounted on a second turntable and held in a second circle concentric with the first circular path. A second motor drives the second turntable such that the first reagent vessels move along the second circle. A plurality of second reagent vessels containing different reagents of a second group are fixedly held in a third circle intersecting with the first and second circular paths. A reagent-distributing nozzle is moved along the third circle, thereby to distribute a reagent to the reaction tubes from any one of the first reagent vessels or any one of the second reagent vessels, or both.